Feb. 22, 1927. 1,618,311

W. C. SEITZ

PAINTBRUSH

Filed May 27, 1924

Fig. 1.

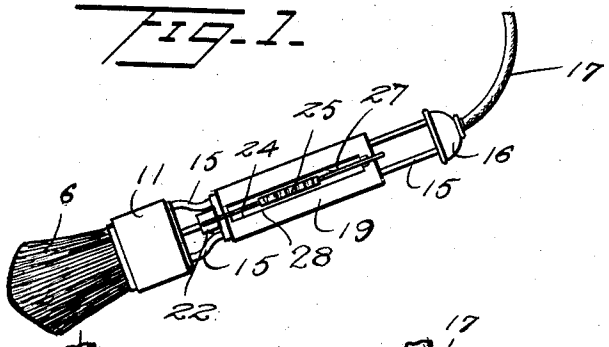


Fig. 2.

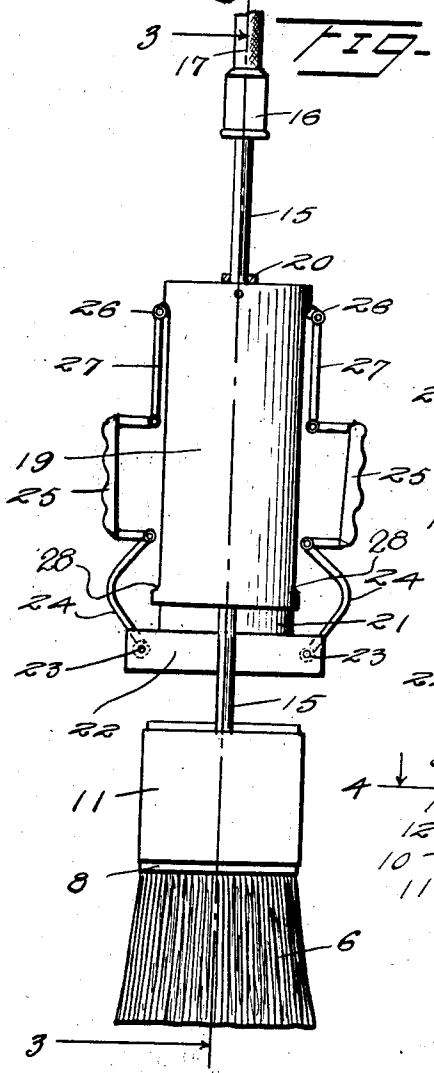


Fig. 3.

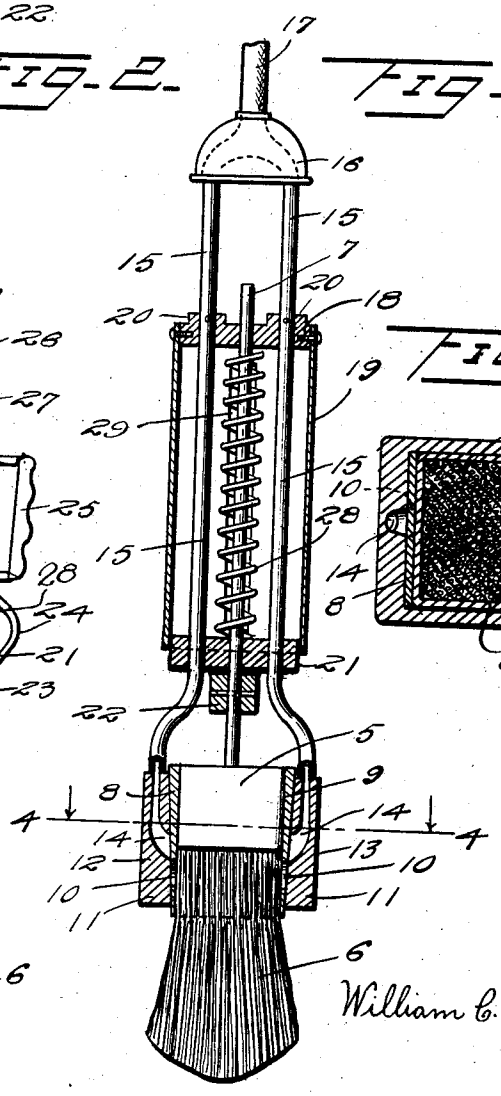


Fig. 4.

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UNITED STATES PATENT OFFICE.

WILLIAM C. SEITZ, OF PALMER, NEW YORK.

PAINTBRUSH.

Application filed May 27, 1924. Serial No. 716,149.

The present invention relates to paint brushes, and aims to provide a novel and improved device of that kind for conveniently and efficiently regulating the flow of paint from a reservoir to the bristles of the brush, while the brush is in use, said brush being adapted for use in painting large structures where it is difficult for a painter to work with an ordinary brush and bucket.

Another object is the provision of a novel brush having a pair of movable hand grip members upon the handle adapted to be moved towards each other which permits the paint to flow to the bristles of the brush, and means for cutting off the supply of paint when pressure is released from said movable hand grip members.

It is also an object of the invention to provide a brush of the kind indicated, which is simple and substantial in construction, which can be manufactured economically, and which will be thoroughly efficient and practical in use.

A further object of the invention is to provide a brush of this character for use in connection with an apparatus such as shown and described in my co-pending application, Serial No. 531,886, filed January 26, 1922.

With the foregoing and other objects in view, which will be apparent as the description proceeds, the invention resides in the construction and arrangement of parts, as hereinafter described and claimed, it being understood that changes can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a side elevation of my improved brush,

Figure 2 is an elevation of another side of the same,

Figure 3 is a section taken on line 3—3 of Figure 2, and

Figure 4 is a cross section on line 4—4 of Figure 3.

In carrying out the invention, the numeral 5 indicates a ferrule rectangular in cross section for receiving the bristles 6 of the brush and has a centrally located rod 7 attached thereto. On opposite sides of the ferrule 5 are secured wedge members 8 and 9 relatively thin and each provided with an opening 10 in communication with the space occupied by the brush bristles. Cooperating with the wedge members 8 and 9 and adapted to surround the rectangular ferrule is a rectangular casing 11 having side walls 12 and 13 which are equipped with passageways 14 having their inner ends opening on the outer surfaces of the wedge members 8 and 9 and normally out of registration with the openings 10. The passageways 14 are in communication with feed pipes 15 which lead from the connecting fitting 16 attached to a flexible hose or pipe 17 which supplies the paint or other fluid to the brush under pressure.

An upper guide disk or plate 18 having a central opening therein to slidably receive the upper end of the rod 7 and also having diametrically opposite openings to receive the feed pipes 15 as shown in Figure 3 is attached in the upper end of a cylindrical sleeve 19. A pair of collars 20 are provided on the disk 18 and attached to the feed pipes 15 so that said disk and feed pipes will move together as the disk is slid upon the rod 7. The lower end of the cylindrical sleeve 19 receives a disk 21 slidable therein, which is carried by the rod 7 and is provided with suitable openings through which the feed pipes slide.

Rigidly fixed to the rod 7 beneath the disk 21 is a cross arm 22, the opposite ends of which extend outwardly beyond the sleeve 19 and are equipped with pivot members 23 for receiving one end of the connecting arms 24 which are attached at their upper ends to the finger or hand grips 25. The upper disk 18 is provided with diametrically opposite pivot members 26 for receiving the upper ends of the connecting arms 27 which are attached at their lower ends to the upper ends of the hand or finger grips 25 as clearly shown in Figure 2 of the drawing. It will be noted that when the members 25 are gripped by the hand of the operator and pressed towards the cylindrical sleeve 19 and through the longitudinal slots 28 in opposite

sides thereof, the pressure thus exerted will slide the disk 18 downwardly on the rod 7 moving the feed pipes 15 therewith and compressing the spring 29, which will cause the rectangular casing 11 to move downwardly on the ferrule and wedge members 8 and 9 to align the openings 10 and passageways 14. This registration will permit the paint to flow to the brush bristles so that such pressure will control the flow of paint to the brush bristles so that the proper quantity of paint will be supplied at all times. A coil spring 29 interposed between the disk members 18 and 21 and surrounding the member 7 will return the parts to a position with the openings 10 and passageways 8 and 9 out of registration so that the flow of paint will be cut off when pressure is released from the hand grips 25.

In operation of my improved paint brush, the hand grips are pressed towards each other by the hand of the operator holding the brush. This pressure will draw the disk 18 down towards the disk 21 compressing the spring 29, the movement of the disks or plates causing the wedge members 8 and 9 and the rectangular casing 11 to move with relation to each other, as the cross member is secured to the rod 7, thus registering the openings 10 and passageways 14. The paint under pressure can then flow from the flexible tube or hose 17 through the tubes 15 to the brush bristles 6. When the hand grips 25 are released the spring returns the various parts to their original position, thus bringing the openings 10 and passageways 14 out of registration. It will be noted that when in this position the flow of paint is absolutely cut off due to the binding action caused by the wedge members.

Having thus described my invention, what I claim as new is:

1. A brush of the character described, comprising bristles, a casing about said bristles having openings therein for supplying paint to said bristles, said openings in said casing being normally out of register with said bristles, a handle, manually operated means upon said handle for sliding said casing upon said bristles to register said openings with said bristles, and spring means for returning said casing to move said openings out of registration with said bristles.

2. A brush of the character described, comprising bristles, plates carried by said bristles having openings therein, a casing about said plates and bristles having openings therein which are normally out of registration with said openings in said plates, feed pipes for supplying paint to said openings in said casing, a handle, manually operated means upon said handle for sliding said casing upon said plates and brush bristles to register the openings therein with said openings in said plates, and means for returning said casing to move said openings out of registration.

3. A brush of the character described, comprising bristles, V-shaped wedge plates carried by said bristles having openings therein registering with said bristles, a casing about said wedge shaped plates and bristles having openings therein, means for supplying paint to said openings in said casing, manually operated means for sliding said casing upon said wedge shaped plates to bring the openings therein in registration with the openings in said wedge shaped plates, and spring means for returning said casing to its original position when said manually operated means is released.

4. A brush of the character described, comprising a cylindrical handle, a bar slidable in said handle, bristles carried by one end of said bar, a casing about said bristles having openings therein normally out of registration with said bristles, manually operated means carried by said handle for sliding said bar within said handle to register said openings in said casing with said bristles, and means for supplying paint to said openings in said casing.

5. A brush of the character described, comprising a cylindrical handle, a bar slidable in said handle, bristles carried by one end of said bar, a casing about said brush bristles having openings therein normally out of registration with said bristles, manually operated means carried by said handle for sliding said bar within said handle to register said openings in said casing with said bristles, means for supplying paint to said openings in said casing, and a coil spring about said bar within said cylindrical handle for returning said casing to move said openings therein out of registration with said bristles when said manually operated means is released.

6. A brush of the character described, comprising a cylindrical handle, a bar slidably received in said handle, bristles attached to one end of said bar, a casing about said bristles having openings therein normally out of engagement with said bristles, said casing being carried by said cylindrical handle, means for supplying paint to said openings in said casing, a cross member attached to said bar, hand grips attached to said cylindrical casing and said cross member adapted to slide said bar within said cylindrical handle for bringing said openings in said casing in registration with said bristles.

7. A brush of the character described, comprising a tube for supplying paint, a pair of feed pipes attached to said tube, a cylindrical handle, said pair of feed pipes adapted to extend longitudinally through said handle, collars upon said tube adapted

to prevent sliding movement of said handle on said tube, a bar slidably received within said handle, bristles carried by one end of said bar, a casing about said bristles having openings therein normally out of registration with said bristles, said feed pipes attached to said casing for supplying paint to said openings therein, and manually operated means carried by said handle for sliding said bar within said handle to move said bristles and casing with relation to each other to register said openings in said casing with said bristles.

In testimony whereof, I have affixed my signature.

WILLIAM C. SEITZ.